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## WEST Search History

DATE: Thursday, November 21, 2002

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side by side			result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L12	L11 same cog	0	L12
L11	L9 same Saccharomyces	10	L11
L10	L9 same Neurospora	2	L10
L9	L8 same haploid	72	L9
L8	L1 same (fungus or fungal or fungi or yeast)	2065	L8
L7	L3 same cog	2	L7
L6	L3 same diploid	3	L6
L5	L3 same Neurospora	2	L5
L4	L3 same haploid	2	L4
L3	L2 same (fungus or fungal or fungi or yeast)	11	L3
L2	(recombination or recombinational) hotspot	41	L2
L1	(recombination or recombinational)	45777	L1

END OF SEARCH HISTORY

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PubMed Nucleotide Protein Genome Structure PopSet Taxonomy OMIM Books

Search PubMed  for (recombinational hotspot) AND (fungus OR Fung) Go Clear

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J Mol Biol. 2002 May 31;319(2):315-27.

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2: [Lobachev KS, Gordenin DA, Resnick MA.](#) Related Articles, Links

The Mre11 complex is required for repair of hairpin-capped double-strand breaks and prevention of chromosome rearrangements.

Cell. 2002 Jan 25;108(2):183-93.

PMID: 11832209 [PubMed - indexed for MEDLINE]

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A yeast gene product, Fob1 protein, required for both replication fork blocking and recombinational hotspot activities.

Genes Cells. 1996 May;1(5):465-74.

PMID: 9078378 [PubMed - indexed for MEDLINE]

4: [Horiuchi T, Nishitani H, Kobayashi T.](#) Related Articles, Links

A new type of *E. coli* recombinational hotspot which requires for activity both DNA replication termination events and the Chi sequence.

Adv Biophys. 1995;31:133-47. Review.

PMID: 7625270 [PubMed - indexed for MEDLINE]

5: [Grimm C, Bahler J, Kohli J.](#) Related Articles, Links

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PubMed	Nucleotide	Protein	Genome	Structure	PopSet	Taxonomy	OMIM	Books
<input type="text" value="Search PubMed"/> <input checked="" type="checkbox"/> for <input type="text" value="recombinational hotspot"/> <input type="button" value="Go"/> <input type="button" value="Clear"/>								
<input type="button" value="Limits"/> <input type="button" value="Preview/Index"/> <input type="button" value="History"/> <input type="button" value="Clipboard"/> <input type="button" value="Details"/>		<input type="button" value="Display"/> <input type="button" value="Summary"/> <input checked="" type="checkbox"/> Sort <input checked="" type="checkbox"/> Save <input type="button" value="Text"/> <input type="button" value="Clip Add"/> <input type="button" value="Order"/>						
<input type="button" value="Show: 20"/> <input checked="" type="checkbox"/> <input type="button" value="Items 1-20 of 55"/> <input type="button" value="Page 1 of 3"/> <input type="button" value="Select page: 1 2 3"/>								

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- 1: [Pecina A, Smith KN, Mezard C, Murakami H, Ohta K, Nicolas A.](#) Related Articles, Links  
Targeted stimulation of meiotic recombination.  
Cell. 2002 Oct 18;111(2):173-84.  
PMID: 12408862 [PubMed - in process]
- 2: [He Q, Cederberg H, Rannug U.](#) Related Articles, Links  
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J Mol Biol. 2002 May 31;319(2):315-27.  
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Cell. 2002 Jan 25;108(2):183-93.  
PMID: 11832209 [PubMed - indexed for MEDLINE]
- 4: [Urawa H, Hidaka M, Ishiguro S, Okada K, Horiuchi T.](#) Related Articles, Links  
Enhanced homologous recombination caused by the non-transcribed spacer of the rDNA in Arabidopsis.  
Mol Genet Genomics. 2001 Dec;266(4):546-55.  
PMID: 11810225 [PubMed - indexed for MEDLINE]
- 5: [Volodin AA, Camerini-Otero RD.](#) Related Articles, Links  
Influence of DNA sequence on the positioning of RecA monomers in RecA-DNA cofilaments.  
J Biol Chem. 2002 Jan 11;277(2):1614-8.  
PMID: 11700314 [PubMed - indexed for MEDLINE]
- 6: [Templeton AR, Weiss KM, Nickerson DA, Boerwinkle E, Sing CF.](#) Related Articles, Links  
Cladistic structure within the human Lipoprotein lipase gene and its implications for phenotypic association studies.  
Genetics. 2000 Nov;156(3):1259-75.  
PMID: 11063700 [PubMed - indexed for MEDLINE]



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PubMed	Nucleotide	Protein	Genome	Structure	PopSet	Taxonomy	OMIM	Bo		
<input checked="" type="checkbox"/> for <b>(recombinational hotspot) AND yeast</b> <span style="float: right;"><input type="button" value="Go"/> <input type="button" value="Clear"/></span>										
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PMID: 11810225 [PubMed - indexed for MEDLINE]

4: [Murray J, Buard J, Neil DL, Yeramian E, Tamaki K, Hollies C, Jeffreys AJ.](#) Related Articles, Links

Comparative sequence analysis of human minisatellites showing meiotic repeat instability.

Genome Res. 1999 Feb;9(2):130-6.

PMID: 10022977 [PubMed - indexed for MEDLINE]

5: [Dooner HK, Martinez-Ferez IM.](#) Related Articles, Links

Recombination occurs uniformly within the bronze gene, a meiotic recombination hotspot in the maize genome.

Plant Cell. 1997 Sep;9(9):1633-46.

PMID: 9338965 [PubMed - indexed for MEDLINE]

6: [Kobayashi T, Horiuchi T.](#) Related Articles, Links

A yeast gene product, Fob1 protein, required for both replication fork blocking and recombinational hotspot activities.

Genes Cells. 1996 May;1(5):465-74.

PMID: 9078378 [PubMed - indexed for MEDLINE]

**□ 7:** [Horiuchi T, Nishitani H, Kobayashi T.](#)[Related Articles](#), [Links](#)

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DIALOG

Set	Items	Description
S1	413098	(RECOMBINATION OR RECOMBINATIONAL)
S2	1349	(RECOMBINATION OR RECOMBINATIONAL) (W) (HOTSPOT?)
S3	177	S2 (S) (FUNGUS OR FUNGAL OR FUNGI OR YEAST)
S4	1	S3 (S) (HAPLOID)
S5	8	S3 (S) (NEUROSPORA)
S6	0	S3 (S) (DIPLOID)
S7	8	S3 (S) COG
S8	4	RD S5 (unique items)
S9	4	RD S7 (unique items)
S10	4	S8 OR S9
?		

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10/3/1 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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12121366 BIOSIS NO.: 199900416215  
Polymorphism around cog extends into adjacent structural genes.  
AUTHOR: Yeadon, P.; Jane, M.; Catcheside, David; EA (a).  
AUTHOR ADDRESS: (a) School of Biological Sciences, Flinders University,  
Adelaide, SA, 5001\*\*Australia  
JOURNAL: *Current Genetics* 35 (6):p631-637 July, 1999  
ISSN: 0172-8083  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

10/3/2 (Item 1 from file: 98)  
DIALOG(R)File 98:General Sci Abs/Full-Text  
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03253312 H.W. WILSON RECORD NUMBER: BGSI96003312 (USE FORMAT 7 FOR  
FULLTEXT)  
Meiotic recombination hotspots.  
Lichten, Michael  
Goldman, Alastair S. H  
Annual Review of Genetics (Annu Rev Genet) v. 29 ('95) p. 423-44  
SPECIAL FEATURES: bibl il ISSN: 0066-4197  
LANGUAGE: English  
COUNTRY OF PUBLICATION: United States  
WORD COUNT: 10773

10/3/3 (Item 1 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)

13762706 22286377 PMID: 12399385  
Recombination at his-3 in *Neurospora* Declines Exponentially With Distance  
from the Initiator, cog.  
Yeadon, P.; Jane, M.; Bowring, F.J.; Rasmussen, J.P.; Catcheside, D.E.A.  
School of Biological Sciences, Flinders University, Bedford Park 5042,  
South Australia.  
*Genetics* (United States) Oct 2002, 162 (2), p747-53, ISSN 0016-6731  
Journal Code: 0374636  
Document type: Journal Article *late*  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: In Process

10/3/4 (Item 1 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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131014846 CA: 131(2)14846r PATENT  
heterologous DNA library production and diversification in fungus using  
coupled recombination hotspots  
INVENTOR(AUTHÖR): Catcheside, David E.  
LOCATION: Australia  
ASSIGNEE: Flinders Technologies Pty. Ltd.  
PATENT: PCT International ; WO 9927072 A1 DATE: 19990603  
APPLICATION: WO 98AU971 (19981123) \*US 977171 (19971124)

PAGES: 103 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-001/15A;  
C12N-015/80B; C12N-003/00B; C12N-015/04B; C12N-015/11B  
DESIGNATED COUNTRIES: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN;  
CU; CZ; DE; DK; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IS; JP; KE;  
KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ;  
PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; US; UZ; VN;  
YU; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; SD; SZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE;  
IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN;  
TD; TG  
? t s10/k/1-4  
>>>KWIC option is not available in file(s): 399

10/K/1 (Item 1 from file: 5)  
DIALOG(R)File 5:(c) 2002 BIOSIS. All rts. reserv.

ABSTRACT: The **recombination hotspot cog** overlaps a highly polymorphic 950-bp region of linkage group I in **Neurospora crassa**. The sequence of this region in the four strains, Lindegren 25a, Lindegren A, Emerson...

...more. Comparison of the sequence of St. Lawrence 74A and Lindegren 25a each side of **cog** shows a high level of sequence heterology extending in both directions, including the coding sequences for his-3 and a putative gene lpl with homology to **yeast** lysophospholipase. The St. Lawrence 74A and Lindegren 25a sequences of his-3, centro-mere-proximal to **cog**, differ at 14 nucleotides, resulting in six amino-acid variations between the predicted protein sequences. In lpl, distal from **cog**, the sequences differ at 19 nucleotides leading to five amino-acid differences between the predicted proteins. Sequence heterology between St. Lawrence 74A and Lindegren 25a peaks either side of **cog** and then declines with distance. At the am locus on linkage group V, heterology is much less but peaks close to a weak **recombination hotspot** 5' of the coding sequence. Uneven distribution of polymorphism along chromosomes has been explained by...

10/K/2 (Item 1 from file: 98)  
DIALOG(R)File 98:(c) 2002 The HW Wilson Co. All rts. reserv.

(USE FORMAT 7 FOR FULLTEXT)

TEXT:  
... initiating lesions, either at ade6 or at other loci (3).  
**HOTSPOTS IN OTHER FUNGI** Meiotic **recombination hotspots** have been described in other **fungi** (reviewed in 16, 78, 87, 92, 124, 134), including the **cog** site near his-3 in **Neurospora crassa** (17) and the YS17 allele of the buff locus in **Sordaria brevicollis** (75). Both...

...the presence of initiation hotspots in flanking regions have also been reported in several other **fungal** species (reviewed in 51, 87, 112), but none of the putative hotspots has been characterized...

10/K/3 (Item 1 from file: 155)  
DIALOG(R)File 155:

By deletion of 1.8 kb of sequence between **cog(L)** and his-3 and replacement with sequences of different lengths, we have generated a set of **Neurospora** strains in which the distance between **cog(L)** and the site at which recombination is selected varies from 1.7 to nearly 6 kb. Each of the manipulated strains includes **cog(L)**, a highly active **recombination hotspot**, and rec-2, thus allowing high-frequency

recombination. In addition, each is a his-3...

... in progeny of these crosses is inversely proportional to the distance between his-3 and **cog**. Specifically, there is a linear relationship between log(10) (recombination frequency) and the distance in...

... markers and the chance of co-conversion has been found in both *Drosophila* and fission **yeast**, indicating that the extension of recombination events may be a stochastic process in most organisms...

... these and additional data presented in this article, we conclude that recombination is initiated at **cog(L)** in >17% of meioses, that most conversion tracts are very short, and that few...